

## **IN THE ABSTRACT**

### **Summary-ABSTRACT**

Plant A plant for the melting of primary and secondary aluminium, provided with a rotating furnace, internally equipped with a spiral element (11), that realizes the melting of the aluminium not using a salty bath, in association with a channel of pouring (13) sets set among the hole (4) of the rotating furnace and the spherical store basin (16) positioned on a lower plan, in a pit, and equipped with a rotating joint (17) that realizes a continuity of inclination with the channel of pouring (13) so that what is obtained is the direct and continuous flow of the fused metal in the store tank without interruption of the process of melting. The plant is also equipped with an automatic and continuous system of selection and recovery of the slag of fusion integrated in the same plant and a double system of canalization of the gases that allows a good cleaning of the pollutant agents and a remarkable energetic conservation in the furnace of melting.